

# ADAM THODEY

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## AEROSPACE / SYSTEMS ENGINEER

Disciplined, focused, and detail-oriented Engineer, experienced in supporting all project phases - design, build, test, and delivery, including on-orbit and operations support. Possess strong understanding of space systems and satellites and experience in developing creative solutions. Particularly skilled at developing an integrated and supported team to ensure project success.

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Ground Systems • Command and Data Handling • Space Systems • Database • TCL • Scripts • Automation  
Integration and Test • Regression Testing • Hardware Testing • Functional Requirements Testing  
Resource / Schedule Management • Launch / Operations Support • Troubleshooting • Problem Resolution  
Needs Assessment • Strategic Planning • Project Management • Technical Writing • Process Improvement  
Team Leadership / Motivation • Quality Control / Quality Assurance • Budgeting • Business Development  
Expense Control • Internal Controls • Consulting • Start Ups / Turnarounds • Event Planning • Vendor Relations

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## SELECTED ACHIEVEMENTS

- Recipient, NASA Group Achievement Award for *Kepler* Launch and Commissioning Team.
- Awarded NASA's *Deep Impact* Public Service Group Achievement Award for ensuring Mission Support Area was created and prepared for launch and on-orbit operations. Efforts ensured synchronization of ground system, proper operation and availability of telecommunication lines, and timely and rapid resolution of support issues.
- Created and implemented timeline/schedule to facilitate team members' efforts in completing concurrent assignments.
- Successfully relocated computers, hardware, and transferred responsibility from HST SITS facilities in Colorado, Maryland, and Goddard Space Flight Center to another government agency.

## AEROSPACE EXPERIENCE HIGHLIGHTS

### **Ground Systems Engineer -**

- Tasked to assemble mission support area, including communications, computers, and count-down/count-up mission clock. Provided test support in clean room and other test facilities; collaborated with software developers in resolving problems and updating database; and supported launch activities.
- As database manager, worked with development team to create test benches, also designated for use on flight, for *Kepler*. Database testing and testing of and on test benches, provided useful results in helping scope out the telemetry and command requirements for the project.
- Created ground system databases in preparation for flight operations by installing updates on facility's test benches, and providing same ground system database for use by JPL.
- Provided OASIS-CC ground system support on *Kepler* project, interfacing with QA to create each ground system database and provide them in a timely manner to test benches, racks and other required users.
- Furnished updates to telemetry and command databases from flight software updates and errors encountered in tests.
- Member of two-member team charged with ensuring Control Center System operated properly at Goddard Space Flight Center. Installed updates to various test facilities, and assisted users in identifying and resolving issues.

### **Hardware Engineer -**

- Collaborated with clients and field support engineers to determine reasons for issues and a current work around until resolutions could be developed or features added.
- Wrote and executed Release Regression tests to ensure stability and efficacy of systems upon release.
- Participated in troubleshooting issues; developed and implemented solutions; and unit and function tested "fixes" to ensure correct implementation.
- Managed rewriting of users' manual, from concept and design, to print and updates for each release.
- Monitored use and location of government and company-furnished equipment and updated/maintained property location database.
- Interfaced with Quality Assurance to ensure adherence to appropriate processes and procedures.
- Developed test template used by Flight Software program, testing algorithms and ensuring adherence to all written and other functional requirements not listed for hardware and/or software.
- Key player in system maintenance and enhancement activities.
- Served as the HST Wide-Field Camera 3 database manager, developing telemetry and command tables and operations definitions, assigning individual bits for specific telemetry required in the downlink for ground system display and later analysis, and defining commands for use in the science instrument.

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## PROFESSIONAL EXPERIENCE

### **BALL AEROSPACE AND TECHNOLOGY CORPORATION, Boulder, Colorado • 10/2003 - 05/2006**

Ground Systems Engineer / Mission Support Area Developer - Deep Impact Project  
Database Manager / Ground Systems Engineer - Kepler Project

### **LOCKHEED MARTIN, Gaithersburg, Maryland • 10/1998 - 10/2003**

Hardware Engineer - Hubble Space Telescope (HST), Science Instrument Test Systems (SITS)

### **DEFENCE SCIENCE AND TECHNOLOGY ORGANISATION, Elizabeth, South Australia • 06/1997 – 08/1997**

GIS and Remote Sensing Internship - Embedded the ATREM code, developed at University of Colorado, into ENVI to get true ground reflectance on images in multi-spectral images obtained by the DSTO to then analyze the resulting image for target detection.

## BUSINESS EXPERIENCE

### **DATA DIPLOMAT LLC, Lyons, Colorado • 05/2011 - 04/2012**

#### **Owner, Data-Driven marketing solutions company**

Promoted business through networking, cold calls and warm calls. Managed budget; prepared proposals; and processed accounts payable / receivable. Installed WordPress and Joomla for website build clients and served as technical back end in installation and troubleshooting issues.

### **PURPLE AVOCADO CATERING, Denver, Colorado • 02/2004 - 05/2010**

#### **President, Corporate Catering and Social Events**

Managed and directed all sales, operations, and financial functions of corporate and special event catering business. Assisted sales staff in developing individual sales plans; collaborated with kitchen personnel to reduce costs and increase safety; and managed all accounting / budget functions.

#### **Accomplishment:**

- Increased sales at least 50% per year since 2005, and increased revenue from \$100K in 2006 to equivalent of \$750K in 2010 when business was sold.

## EDUCATION

*Masters of Engineering in Space Systems*  
*Masters of Engineering in Applied Remote Sensing and Geoinformation Systems*  
*Bachelor of Science in Aerospace Engineering*

University of Michigan, College of Engineering - Ann Arbor, Michigan

## COMPUTER SKILLS

#### *Digital Image Processing*

ArcView • ArcInfo • IDRISI • NIH Image • ER Mapper • TNT • TransCAD • Desktop Mapping System

#### *CAD and Laboratory Software*

LabTech Notebook • SDRC I-DEAS Master Series

#### *Programming Languages*

C • FORTRAN • MATLAB • TCL • HTML • CSS • Java • Javascript • PHP

#### *Other Engineering*

Sigma Plot • Visio • MathCAD • ClarisDraw / ClarisCAD • Deltagraph • DOORS

#### *Business Applications*

Microsoft Office • PageMaker • WordPerfect • Open Office • CaterEase • QuickBooks • FrameMaker

## PROFESSIONAL AFFILIATIONS / PRESENTATIONS

The American Institute of Aeronautics and Astronautics (AIAA) • Society of Automotive Engineers (SAE)

Roger B Chaffee Scholarship Fund Award Dinner featured Guest Speaker, 2005  
Roger B Chaffee Planetarium, Van Andel Museum, Grand Rapids, Guest Lecturer, 2005